

LB00105

United States Environmental Protection Agency
Region 4



35TH AVENUE REMOVAL INVESTIGATION
BIRMINGHAM, ALABAMA
JEFF CROWLEY, ON-SCENE COORDINATOR

FIELD SAMPLING LOGBOOK

Book 1 of 1

Inclusive Dates: August 25TH 2014 (1 DAY ONLY)

List of Sampling Team in logbook:

Name	Initials	Organization/Duties
<u>R. Henderson</u>	<u> </u>	<u>OTIE</u> , Team Leader
<u>E. Morris</u>	<u> </u>	<u>OTIE - Sampler</u>
<u>G. Kowalski</u>	<u>JK</u>	<u>OTIE - Sampler</u>
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Sampling Procedures and Methodology

Unless specified elsewhere in this logbook, all soil samples will be collected in accordance with the EPA Science and Ecosystem Division (SED) Field Branches Quality System and Technical Procedures (FBQSTP) Soil Sampling (SEDPROC-300-R2) based on the following design.

The total number of 5-point composite surface soil samples (0-4 inches below ground surface) to be collected from each property will be based on the lot size as follows:

- For residential properties with a total parcel lot size equal to or less than (\leq) 5,000 square feet - the front yard and back yards of each property. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may also be collected from the side yard. Aliquots will be collected away from influences with drip lines and burn areas in a five dice configuration (each of the four corners and the center).
- For residential properties with a total parcel lot size greater than ($>$) 5,000 square feet and \leq ¼-acre - the property should be divided into two roughly equal surface areas. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may be collected from the side yard with the remainder of the property being divided into two roughly equal surface areas. Aliquots will be collected away from influences including drip lines and burn areas with reasonably equal spacing between aliquots.
- Residential properties over ¼-acre in parcel lot size will be divided into ¼-acre sections. When dividing any such property with a substantial side yard (primarily corner lots), one composite soil sample may be collected from the side yard. Aliquots will be collected away from influences including drip lines and burn areas in a five dice configuration, if possible, with reasonably equal spacing between aliquots.

Grab surface soil samples will be collected from apparent exposure pathways where active play sets are located.

Three-point composite surface soil samples will be collected from distinct vegetable gardens from each residential property.

Samples shall not be collected under paved areas or under stationary fixed structures.

Grab sediment samples will be collected in accordance with EPA SED FBSTP Sediment Sampling (SEDPROC-200-R2) from any surface water drainage pathways located on individual properties, as directed by the OSC, and in and along the banks of the 34th Street North Ditch.

Each surface soil or sediment sample should be homogenized in a stainless steel bowl. One 8-ounce jar will be filled and the remaining sample material will be placed in zip-top bags for screening. Information identifying the location, sample, and date/time will be inscribed on each jar and zip-top bag.

All sample bags will be screened for metals in accordance with SED FBQSTP Field XRF Measurement (SEDPROC-107-R2) using a Niton XRF. The sample will be dried before sieving or analysis is performed. Once the sample has dried, the sample will be divided into two subsamples; one subsample will be sieved through a #10 screen (2 mm) and the other will be left unsieved. Once separated into sieved and unsieved samples, the zip-top bag will be compressed by folding over the excess plastic and removing as much air and space from the sample as possible. The XRF will be placed directly on the exterior of the compressed sample in the plastic zip-top bag to measure metals concentrations. Following XRF screening, the unsieved portion of the sample material will be containerized into one 8-ounce jars and the sieved portion of the sample will be containerized into another 8-ounce jar.

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Based on the site DQOs the 8-ounce jars of surface soil and sediment samples should be submitted to PEL, Tampa, Florida (a NELAC certified laboratory) for low level PAH, and/or TCL SVOC, RCRA metals, PCB, and/or Hexavalent Chromium analysis. RCRA metals will be analyzed from both the sieved and unsieved portions of the sample. All other analysis will be conducted on the unsieved portion.

The location of each aliquot will also be logged in accordance with SESD FBQSTP Global Positioning System (SESDPROC- 110-R3) using a Trimble GPS.

A description of the color and texture of the aliquot material will be recorded in each box.

The **station ID** for each location will consist of seven characters, beginning with the six digit Property ID designation for the property followed by a alphabetic letter beginning with "A".

e.g. CV0001A would be the station ID for the front yard 5-pt composite sample collected at the property with Property ID CV0001.

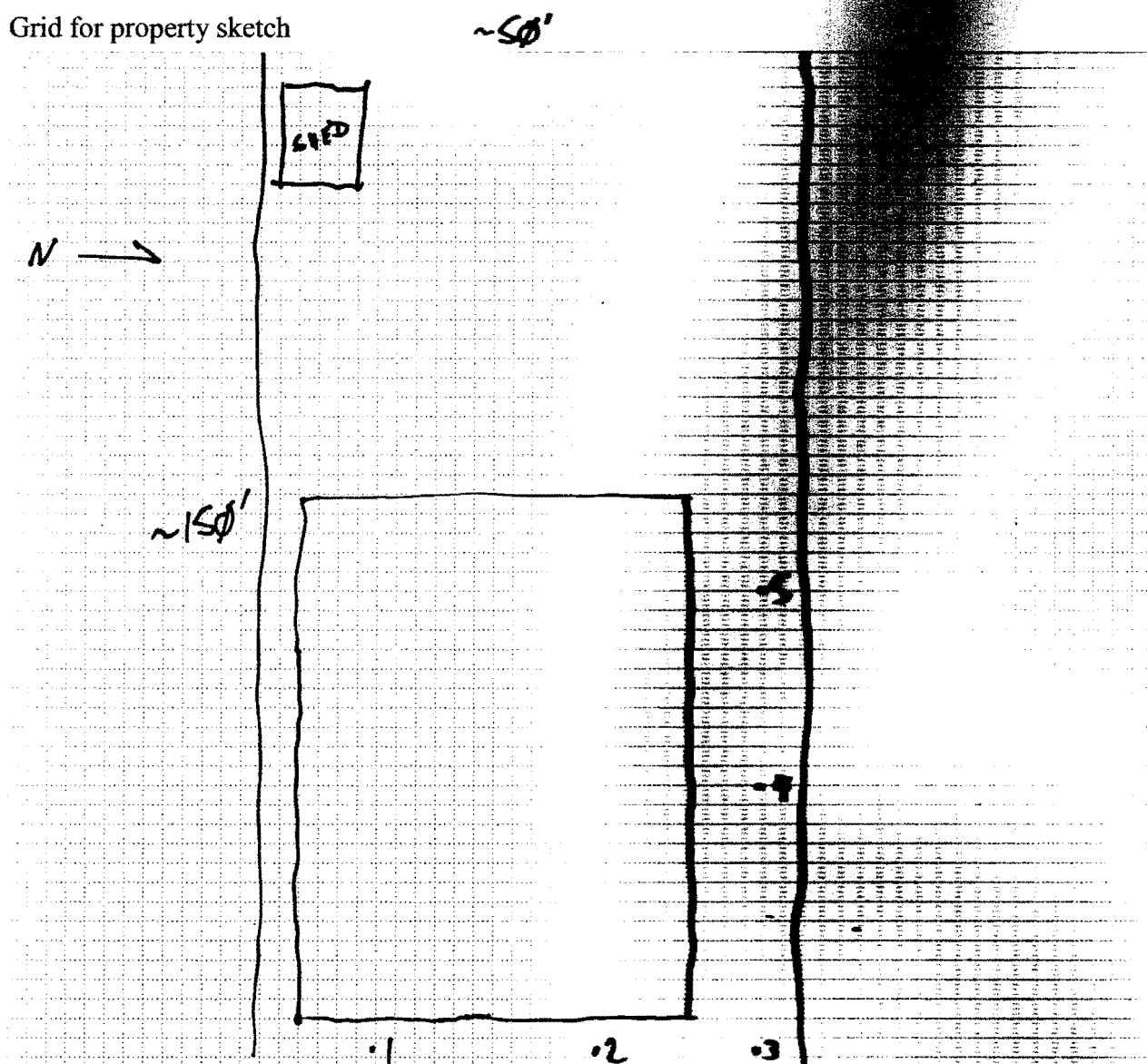
The **sample ID** for each sample is the station ID with "CS" (composite soil), "GS" (grab soil), "SD" (sediment), or "SW" (surface water) appended, therefore, the sample ID for this sample would be CV0001A-CS. Co-located duplicates will be designated by appending a "D" to the end of the sample ID. Pan splits will be identified by appending an "SP" to the end of the sample ID.

ADDRESS: 3352 32nd St N PROPERTY ID: CV02545
DATE: 8/25/14 ARRIVAL TIME: 1300

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: CV0268ASAMPLE ID: CV0268A-CS0-4SAMPLE COLLECTION TIME: 1:325

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

FRONT/SIDECollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: 33.55782379300 N Longitude: 86.80314680360 WMedia description: DARK BROWN SANDY SILT (DRY) w/ COAL FRAGSAliquot #2 Latitude: 33.55786230120 N Longitude: 86.80314524880 W

Media description: _____

Aliquot #3: Latitude: 33.55790303710 N Longitude: 86.80317276830 W

Media description: _____

Aliquot #4: Latitude: 33.55789765350 N Longitude: 86.80321738420 W

Media description: _____

Aliquot #5: Latitude: 33.55790182650 N Longitude: 86.80321968480 W

Media description: _____

STATION ID: _____

SAMPLE ID: _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: _____ N Longitude: _____ W

Media description: _____

Aliquot #2 Latitude: _____ N Longitude: _____ W

Media description: _____

Aliquot #3: Latitude: _____ N Longitude: _____ W

Media description: _____

Aliquot #4: Latitude: _____ N Longitude: _____ W

Media description: _____

Aliquot #5: Latitude: _____ N Longitude: _____ W

Media description: _____

ADDRESS: 3028 33RD CT N

PROPERTY ID: CV0823

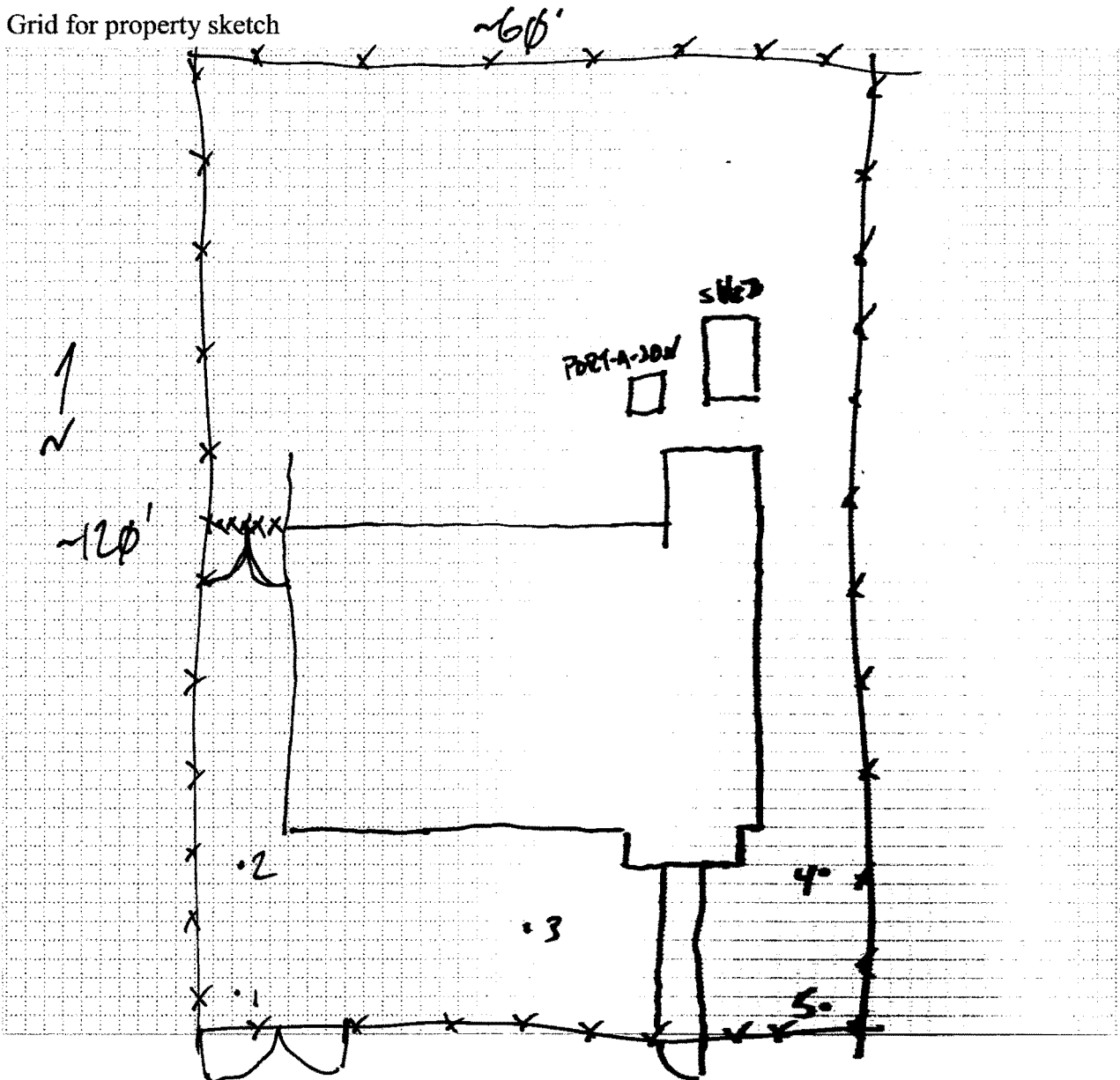
DATE: 8/25/14

ARRIVAL TIME: 1400

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: CV0323A SAMPLE ID: CV0323A-CS0-4"

SAMPLE COLLECTION TIME: 1420

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

FRONT YARD

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: 33.55636395780 N Longitude -86.80777775360 W

Media description: BROWN SANDY SILT

Aliquot #2 Latitude: 33.55641717540 N Longitude -86.80776313370 W

Media description: 1

Aliquot #3: Latitude: 33.55638974160 N Longitude -86.80771930330 W

Media description: "

Aliquot #4: Latitude: 33.55639904300 N Longitude -86.80764523630 W

Media description: "

Aliquot #5: Latitude: 33.55637331290 N Longitude -86.80763016760 W

Media description: "

STATION ID: _____ SAMPLE ID: _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: _____ N Longitude _____ W

Media description: _____

Aliquot #2 Latitude: _____ N Longitude _____ W

Media description: _____

Aliquot #3: Latitude: _____ N Longitude _____ W

Media description: _____

Aliquot #4: Latitude: _____ N Longitude _____ W

Media description: _____

Aliquot #5: Latitude: _____ N Longitude _____ W

Media description: _____

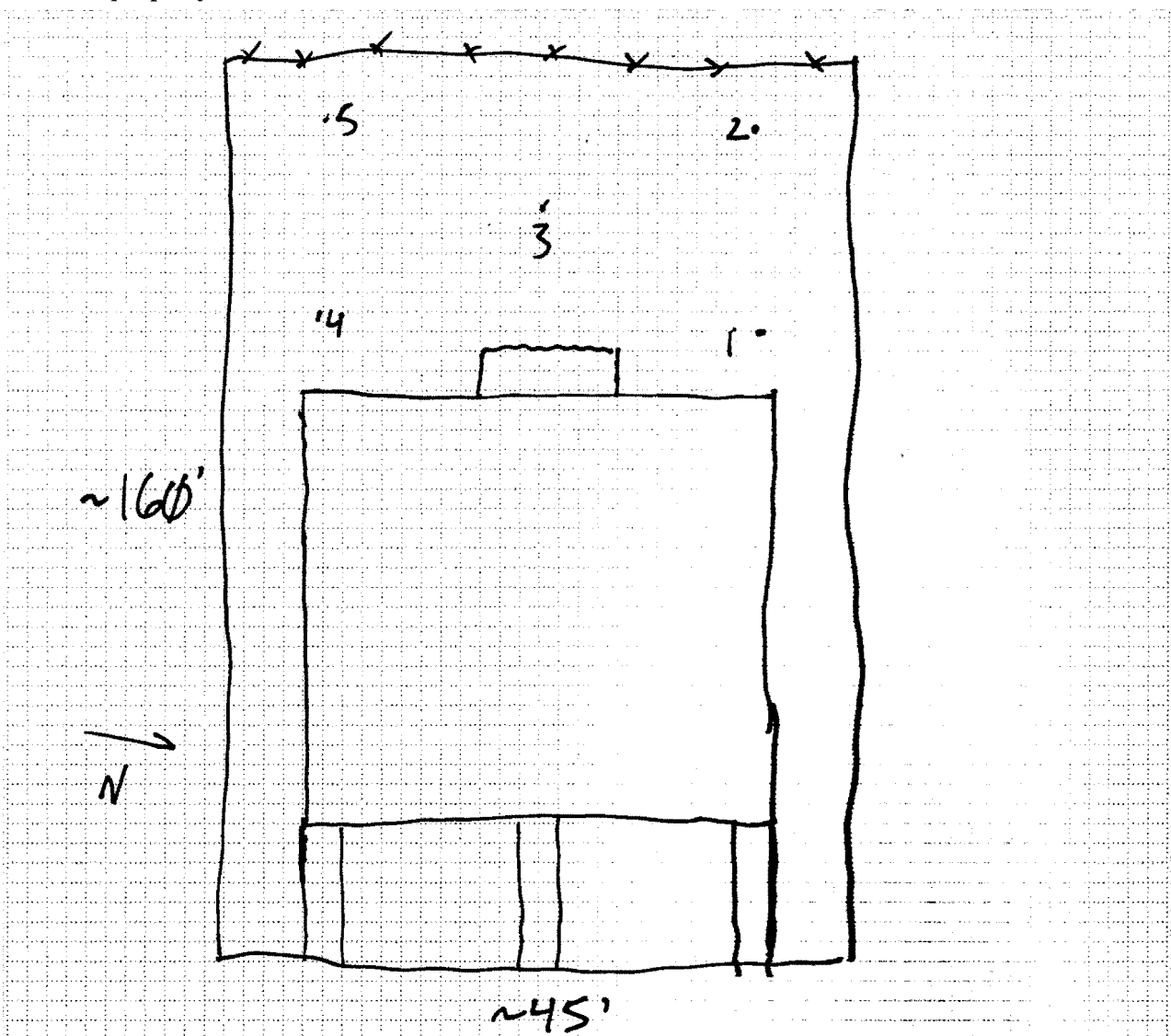
ADDRESS: 3316 32nd Pl. North PROPERTY ID: CV0222

DATE: 1440^{em} 8/25/14 ARRIVAL TIME: 1440

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: CV0222B SAMPLE ID: CV0222B-CS0-4

SAMPLE COLLECTION TIME: 1455

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: 33.55607899500 N Longitude: -86.80203600130 W
Media description: Brown SANDY SILT w/ DEBRIS

Aliquot #2: Latitude: 33.55608178060 N Longitude: -86.80215719780 W
Media description: _____

Aliquot #3: Latitude: 33.55601691060 N Longitude: -86.80216210430 W
Media description: _____

Aliquot #4: Latitude: 33.55601010050 N Longitude: -86.80203909930 W
Media description: _____

Aliquot #5: Latitude: 33.55604622120 N Longitude: -86.80209849890 W
Media description: _____

STATION ID: _____ SAMPLE ID: _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: _____ N Longitude: _____ W
Media description: _____

Aliquot #2: Latitude: _____ N Longitude: _____ W
Media description: _____

Aliquot #3: Latitude: _____ N Longitude: _____ W
Media description: _____

Aliquot #4: Latitude: _____ N Longitude: _____ W
Media description: _____

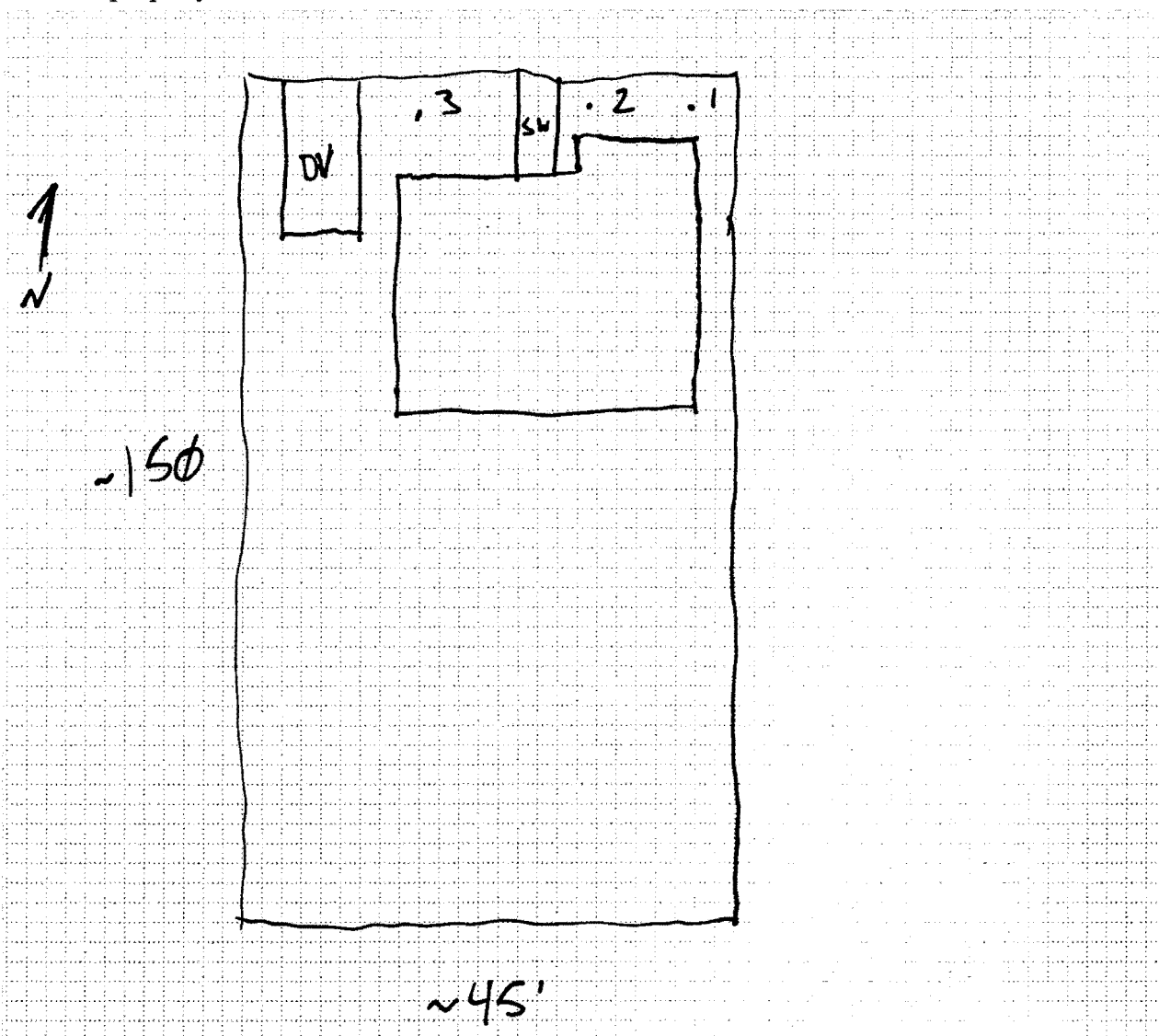
Aliquot #5: Latitude: _____ N Longitude: _____ W
Media description: _____

ADDRESS: 3219 27th Ct N PROPERTY ID: CV 1067
DATE: 8/25/14 ARRIVAL TIME: 1515

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: CV1067ASAMPLE ID: CV1067A-CS0-4SAMPLE COLLECTION TIME: 1530

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

FRONT YARDCollection: ☒ Composite or ☐ GrabMS/MSD? Y or ☒ NField Duplicate or Split: Yes or ☒ No If yes, indicate Duplicate/split sample station ID: _____GPS Coordinates: Trimble ☐ Instrument #: _____ Logged? Y or NAliquot #1: Latitude: 33.55034105960 N Longitude: -86.80144033380 WMedia description: DRY BROWN SANDY SILTAliquot #2: Latitude: 33.55034143090 N Longitude: -86.80150707160 W

Media description: _____

Aliquot #3: Latitude: 33.55034317730 N Longitude: -86.80152717590 W

Media description: _____

Aliquot #4: Latitude: _____ N Longitude: _____ W

Media description: _____

Aliquot #5: Latitude: _____ N Longitude: _____ W

Media description: _____

STATION ID: _____ SAMPLE ID: _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: ☐ Composite or ☐ Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble ☐ Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: _____ N Longitude: _____ W

Media description: _____

Aliquot #2: Latitude: _____ N Longitude: _____ W

Media description: _____

Aliquot #3: Latitude: _____ N Longitude: _____ W

Media description: _____

Aliquot #4: Latitude: _____ N Longitude: _____ W

Media description: _____

Aliquot #5: Latitude: _____ N Longitude: _____ W

Media description: _____

ADDRESS: 2932 34th St N

PROPERTY # 011357 B^{EN}

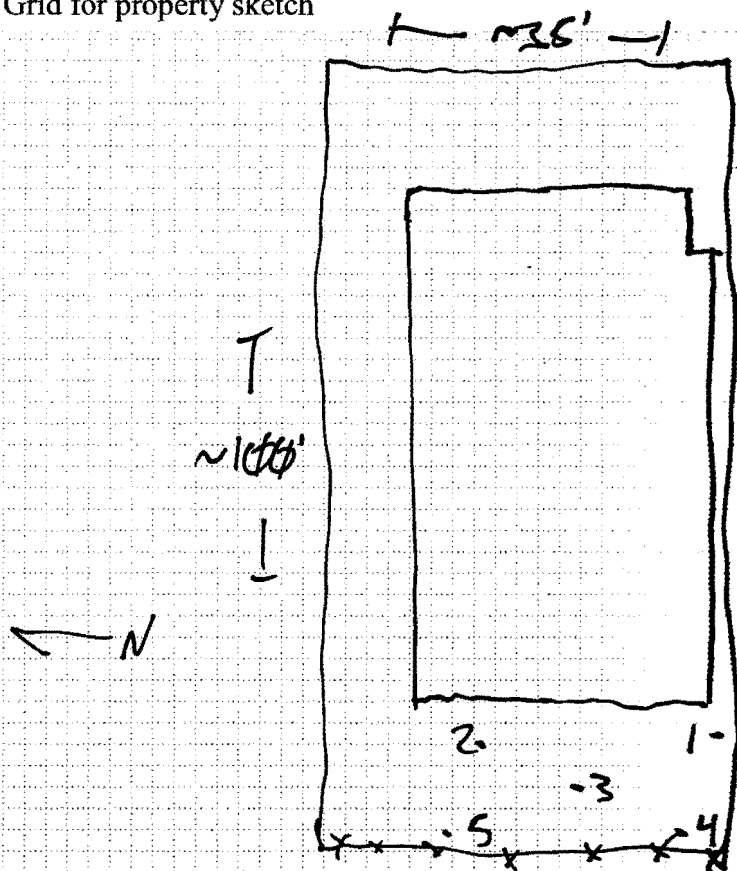
DATE: 8/25/14

ARRIVAL TIME: 1540

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: CV1357B SAMPLE ID: CV1357B-CS0-4

SAMPLE COLLECTION TIME: 1855

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

BACKYARD

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: _____		Logged? Y or N
Aliquot #1: Latitude: <u>33.55231861360</u>	N Longitude: <u>86.79868846760</u>	W
Media description: <u>DRY BROWN SANDY SILT w/ DEBRIS</u>		
Aliquot #2: Latitude: <u>33.55238231550</u>	N Longitude: <u>86.79868899360</u>	W
Media description: <u>"</u>		
Aliquot #3: Latitude: <u>33.55235637800</u>	N Longitude: <u>86.79870886010</u>	W
Media description: <u>"</u>		
Aliquot #4: Latitude: <u>33.55231107540</u>	N Longitude: <u>86.79873985220</u>	W
Media description: <u>"</u>		
Aliquot #5: Latitude: <u>33.55239647860</u>	N Longitude: <u>86.79874223290</u>	W
Media description: _____		

STATION ID: _____ SAMPLE ID: _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

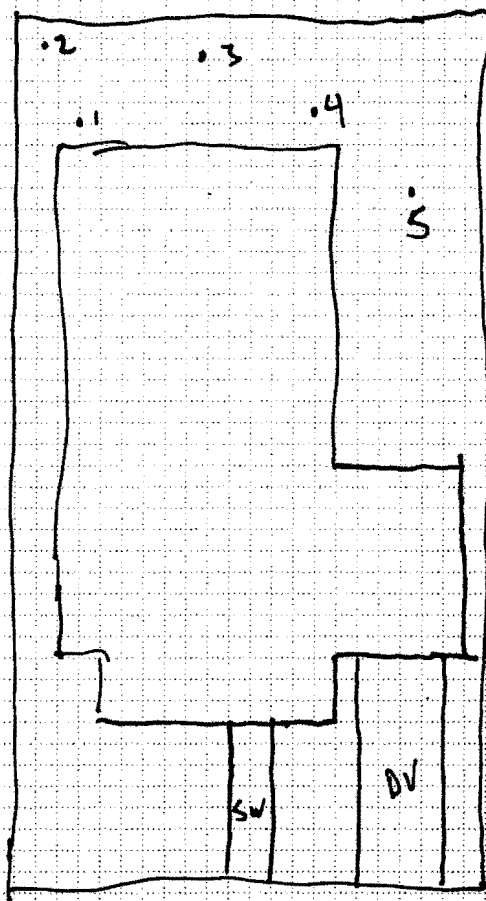
GPS Coordinates: Trimble [] Instrument #: _____		Logged? Y or N
Aliquot #1: Latitude: _____	N Longitude: _____	W
Media description: _____		
Aliquot #2: Latitude: _____	N Longitude: _____	W
Media description: _____		
Aliquot #3: Latitude: _____	N Longitude: _____	W
Media description: _____		
Aliquot #4: Latitude: _____	N Longitude: _____	W
Media description: _____		
Aliquot #5: Latitude: _____	N Longitude: _____	W
Media description: _____		

ADDRESS: 3560 42nd Ave N PROPERTY ID: HP 00984
DATE: 8/25/14 ARRIVAL TIME: 1600

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: HP0098BSAMPLE ID: HP0098B-CS0-4SAMPLE COLLECTION TIME: 1615

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

BACKYARDCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: _____ N Longitude _____ W

Media description: STONV SANDY SILTAliquot #2 Latitude: 33.56534747400 N Longitude 86.79427120750 W

Media description: _____

Aliquot #3: Latitude: 33.56537051840 N Longitude 86.79430220300 W

Media description: _____

Aliquot #4: Latitude: 33.56536825030 N Longitude 86.79434551200 W

Media description: _____

Aliquot #5: Latitude: 33.56531700170 N Longitude 86.79423278100 W

Media description: _____

STATION ID: _____

SAMPLE ID: _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: _____ N Longitude _____ W

Media description: _____

Aliquot #2 Latitude: _____ N Longitude _____ W

Media description: _____

Aliquot #3: Latitude: _____ N Longitude _____ W

Media description: _____

Aliquot #4: Latitude: _____ N Longitude _____ W

Media description: _____

Aliquot #5: Latitude: _____ N Longitude _____ W

Media description: _____

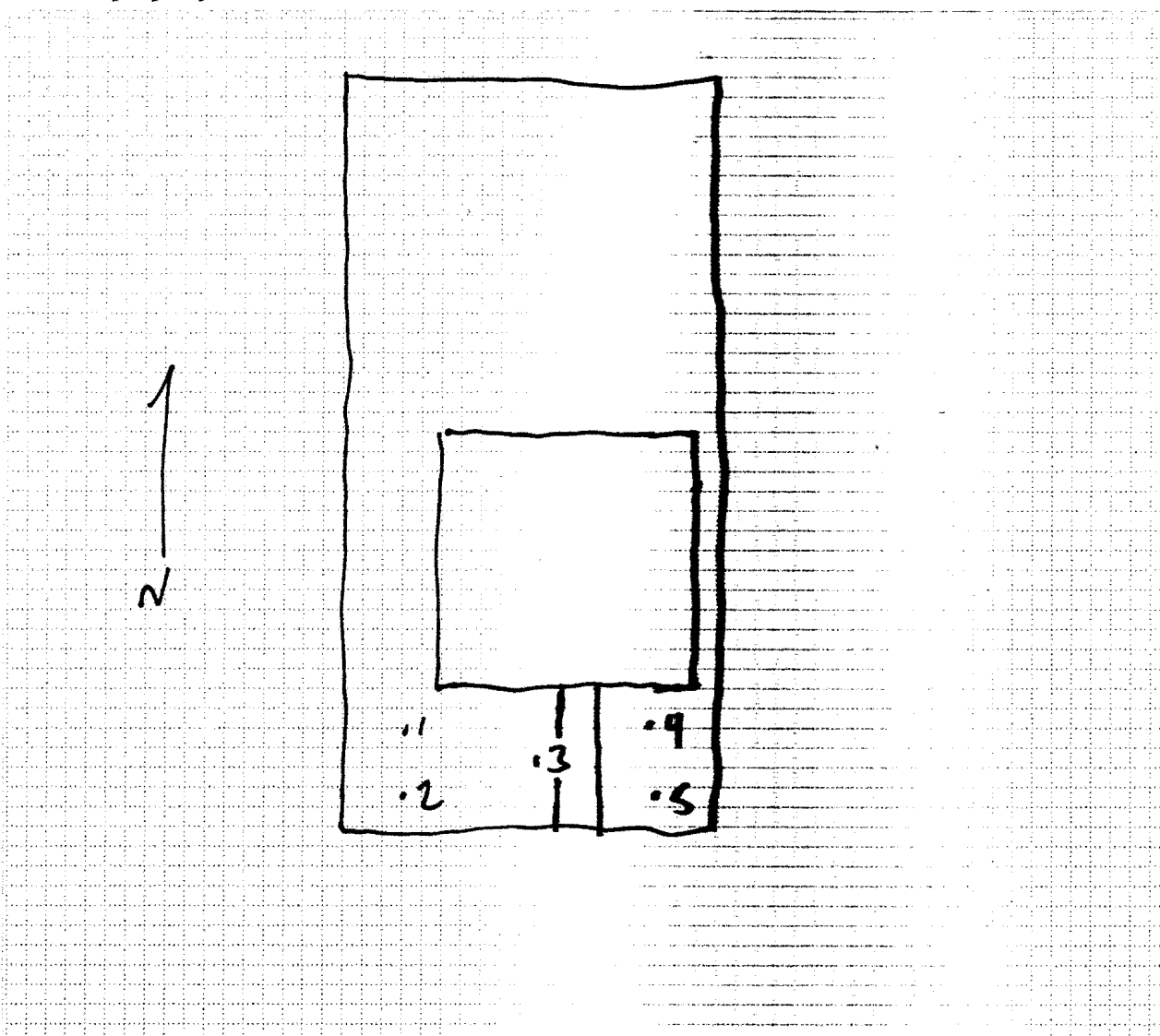
ADDRESS: 5646 44th Ave N PROPERTY ID: HP0237

DATE: 8/25/14 ARRIVAL TIME: 1630

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: HP 0237ASAMPLE ID: HP0237A-CS0-4SAMPLE COLLECTION TIME: 1640

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

FRONT YARDCollection: Composite or GrabMS/MSD? Y or (N)Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: 33.56676019110 N Longitude: -86.79186187430 WMedia description: DARK BROWN SANDY SILTAliquot #2 Latitude: 33.56672912830 N Longitude: -86.79186227300 WMedia description: RED BROWN SILTY CLAYAliquot #3: Latitude: 33.56673970490 N Longitude: -86.79181375910 WMedia description: DARK BROWN SANDY SILT w/ SLAGAliquot #4: Latitude: 33.56675581370 N Longitude: -86.79176418860 WMedia description: "Aliquot #5: Latitude: 33.56671912510 N Longitude: -86.79177236890 WMedia description: "

STATION ID: _____

SAMPLE ID: _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: _____ N Longitude: _____ W

Media description: _____

Aliquot #2 Latitude: _____ N Longitude: _____ W

Media description: _____

Aliquot #3: Latitude: _____ N Longitude: _____ W

Media description: _____

Aliquot #4: Latitude: _____ N Longitude: _____ W

Media description: _____

Aliquot #5: Latitude: _____ N Longitude: _____ W

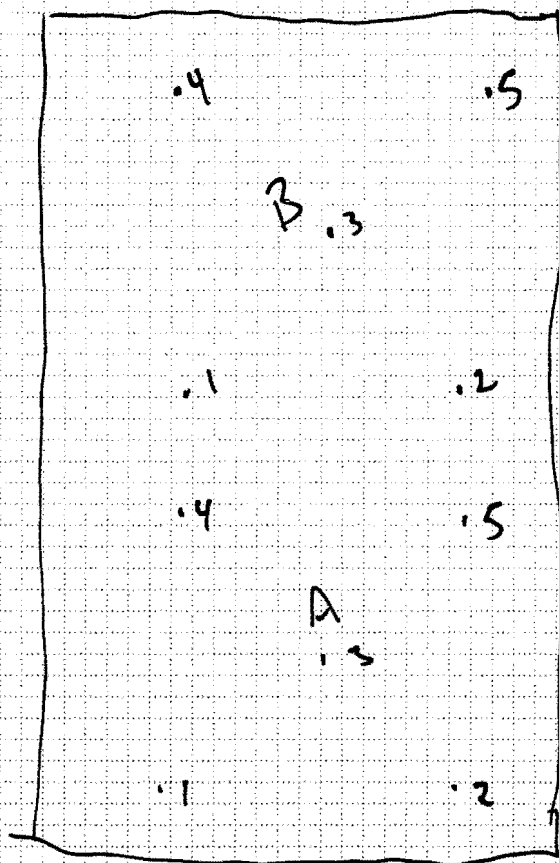
Media description: _____

ADDRESS: 3221 31ST Ave N PROPERTY ID: CV-0815
DATE: 6/25/14 ARRIVAL TIME: 1650

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: CV0815ASAMPLE ID: CV0815A-CS0-4SAMPLE COLLECTION TIME: 1700

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

FRONT YARDCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: 33.55414495840 N Longitude -86.80119758940 W

Media description: _____

Aliquot #2 Latitude: 33.55414263460 N Longitude -86.80108728790 W

Media description: _____

Aliquot #3: Latitude: 33.55423415430 N Longitude -86.80116494220 W

Media description: _____

Aliquot #4: Latitude: 33.55432905530 N Longitude -86.80119646640 W

Media description: _____

Aliquot #5: Latitude: 33.55432549190 N Longitude -86.80109739120 W

Media description: _____

STATION ID: CV0815BSAMPLE ID: CV0815B-CS0-4SAMPLE COLLECTION TIME: 1715

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

BACK YARDCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: 33.55434992970 N Longitude -86.80120570480 W

Media description: _____

Aliquot #2 Latitude: 33.55434231470 N Longitude -86.80110519640 W

Media description: _____

Aliquot #3: Latitude: 33.55437277180 N Longitude -86.80115240490 W

Media description: _____

Aliquot #4: Latitude: 33.55440322890 N Longitude -86.80122397910 W

Media description: _____

Aliquot #5: Latitude: 33.55440322890 N Longitude -86.80110824210 W

Media description: _____

ADDRESS: _____ PROPERTY ID: _____

DATE: _____ ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch

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